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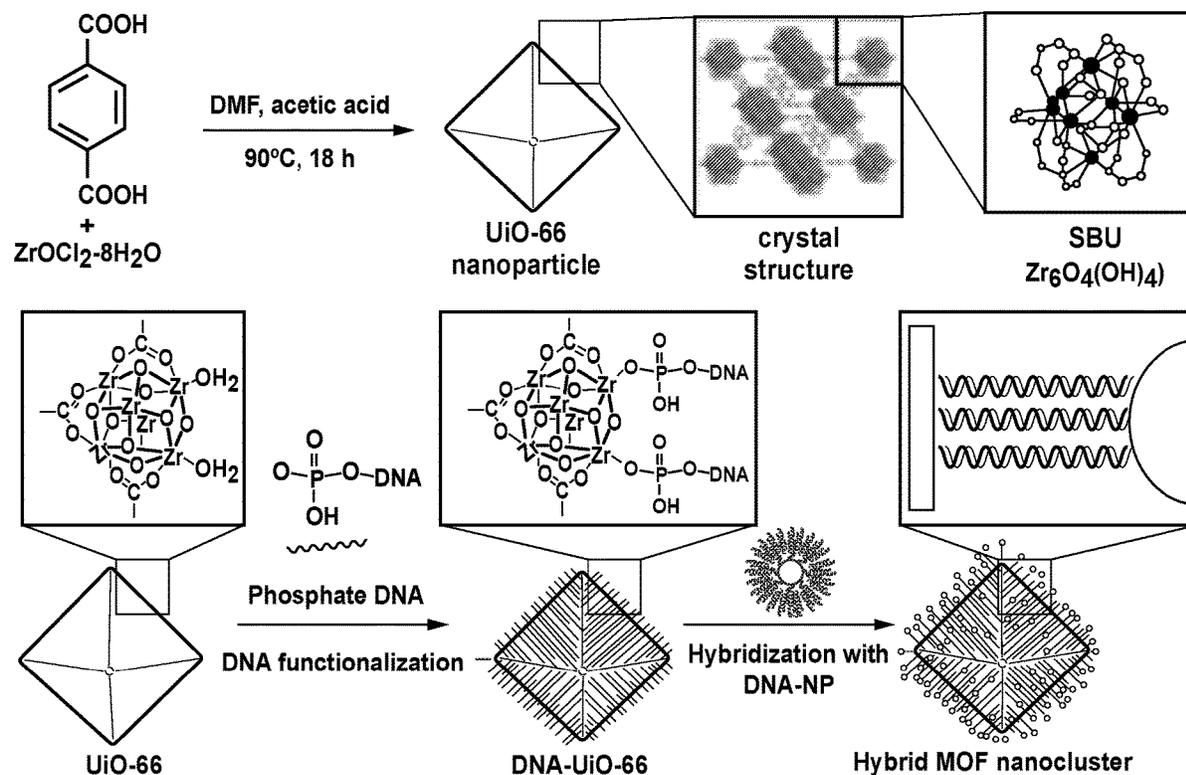
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(57) **ABSTRACT**

The present disclosure generally relates to metal-organic framework nanoparticles containing terminal phosphate-modified oligonucleotides, methods for making the same, and methods of using the same.

Specification includes a Sequence Listing.

αInset: Zr₆O₄(OH)₄ secondary building units (SBU).